

1 CLAIMS OF THE INVENTION

2 1. A system of two separate panels of computer keyboard means for reducing the motions
3 and promoting the ergonomic posture of the shoulders and upper arms of a computer-
4 keyboard user operating a computer and a laptop computer wherein a first independent
5 computer keyboard panel member comprising all computer keyboard keys bearing all
6 numerics, alphabets, words, symbols, signs and functions to the left of keys 5, T, G, B
7 universally found on computer keyboards including keys 5, T, G, B and their associated
8 symbols and functions, a first Space-key, a first Enter-key and a first camera means for
9 surveillance, and a second independent computer keyboard panel member comprising all
10 keyboard keys bearing all numerics, alphabets, words, symbols, signs and functions to the
11 right of keys 6, Y, H, N universally found on computer keyboards including keys 6, Y, H, N
12 and their associated symbols, a second Space-key, a second Enter-key and a second camera
13 means for surveillance, wherein said panel members comprising computer mouses, balls,
14 buttons, wheels, dials, and scrolling and pointing devices, and wherein said panel adaptable
15 to be independently positioned, moved and maneuvered in different directions on any surface
16 or surfaces.

17 2. A system of two separate panels of computer keyboard means for reducing the motions and
18 promoting the ergonomic posture of the shoulders and upper arms of a computer-keyboard
19 user operating a computer and a laptop computer wherein a first independent computer
20 keyboard panel member comprising all computer keyboard keys bearing all numerics,
21 alphabets, words, symbols, signs and functions to the left of keys 5, T, G, B universally found
22 on computer keyboards including keys 5, T, G, B and their associated symbols and functions,
23 a first Space-key, a first Enter-key and a first camera means for surveillance, and a second
24 independent computer keyboard panel member comprising all keyboard keys bearing all
25 numerics, alphabets, words, symbols, signs and functions to the right of keys 6, Y, H, N
26 universally found on computer keyboards including keys 6, Y, H, N and their associated
27 symbols, a second Space-key, a second Enter-key and a camera means for surveillance,

1 wherein said panel members comprising computer mouses, balls, buttons, wheels, dials, and
2 scrolling and pointing devices, and wherein said first panel adaptable to be indepedently
3 positioned, moved and maneuvered in different directions on any surface or surfaces
4 comprises:

5 a first independent left-panel computer keyboard means for reducing the motions of the left
6 shoulder and upper arm;

7 said first independent left-panel computer keyboard means for reducing the stress on the left
8 shoulder and upper arm;

9 a first Return-key;

10 a first Enter-key;

11 a first camera means for scrutinizing the shoulder and upper arm with adjustably swivelling
12 lens;

13 a second independent right-panel computer keyboard means for reducing the motions of the
14 right shoulder and upper arm;

15 said second independent righ-panel computer keyboard means for reducing the stress on the
16 right shoulder and upper arm;

17 a second Return-key;

18 a second Enter-key;

19 a second camera means for scrutinizing the shoulder and upper arm with adjustably swivellng

- 1 lens;
 - 2 a shoulder-arm positioning sensor means for monitoring a position of shoulder and upper
 - 3 arm;
 - 4 a means for positioning a shoulder and upper arm;
 - 5 a means for monitoring a position of a shoulder and upper arm;
 - 6 a means for compelling a desired position of a shoulder and upper arm;
 - 7 a means for maintaining a posture of a shoulder and upper arm;
 - 8 a timing means for permitting the amount of time of disengagement of the hand, wrist and
 - 9 forearm from said means;
 - 10 a computer software means for computing and analyzing the information and data on the
 - 11 movements, positions, orientations and degree of stress on the shoulder and upper arm
 - 12 generated by the interaction between the hand, wrist and forearm and said means;
 - 13 a base supporting means for variably affixing a position of said panel; and
 - 14 a traction means for adjustably affixing a position of said panel.
- 15 3. The system of two separate panels of computer keyboard means according to claim 2
- 16 wherein said first independent left-panel computer keyboard means for reducing the motions
- 17 of the left shoulder and upper arm comprises a chassis supporting all computer keyboard keys
- 18 bearing all numerics, alphabets, words, symbols, signs and functions to the left of keys 5, T,
- 19 G, B universally found on computer keyboards including keys 5, T, G, B and their associated

1 symbols and functions, a first Space-key and a first Enter-key to the sides of said keyboard
2 keys, and a first camera means for surveillance, computer mouses, balls, buttons, wheels,
3 dials, and scrolling and pointing devices.

4 4. The system of two separate panels of computer keyboard means according to claim 2
5 wherein said second independent right-panel computer keyboard means for reducing the
6 motions of the right shoulder and upper arm comprises a chassis supporting all computer
7 keyboard keys bearing all numerics, alphabets, words, symbols, signs and functions to the
8 right of keys 6, Y, H and N universally found on computer keyboards including keys 6, Y, H,
9 N and their associated symbols and functions, a second Space-key and a second Enter-key to
10 the sides of said keyboard keys and a second camera means for surveillance, computer
11 mouses, balls, buttons, wheels, dials, and scrolling and pointing devices.

12 5. The system of two separate panels of computer keyboard means according to claim 2
13 wherein said shoulder-arm positioning sensor means for monitoring a position of shoulder
14 and upper arm is a plurality of cameras having swivelling lenses.

15 6. The system of two separate panels of computer keyboard means according to claim 2
16 wherein said means for positioning a shoulder and upper arm comprises a hand-wrist-forearm
17 support means for effecting an ergonomic flexion angle at the elbow between the forearm and
18 the upper arm and an ergonomic posture of the ipsilateral shoulder and upper arm.

19 7. The system of two separate panels of computer keyboard means according to claim 2
20 wherein said means for monitoring a position of a shoulder and upper arm comprises a hand-
21 wrist-forearm support means for effecting an ergonomic flexion angle at the elbow between
22 the forearm and the upper arm and an ergonomic posture of the ipsilateral shoulder and upper
23 arm.

24 8. The hand-wrist-forearm support means according to claim 7 comprises a contact-sensor

1 means for monitoring the positions, orientations of and contacts between the hand, wrist and
2 forearm and the contact-sensor means.

3 9.The hand-wrist-forearm support means according to claim 7 comprises a heat-cold sensor
4 means for detecting and monitoring the heat emitted by the hand, wrist and forearm.

5 10. The hand-wrist-forearm support means according to claim 7 comprises a pressure-sensor
6 means for monitoring the pressures and forces being exerted by the hand, wrist and forearm
7 on the pressure-sensor means.

8 11. The system of two separate panels of computer keyboard means according to claim 2
9 wherein said means for compelling a desired position of a shoulder and upper arm comprises
10 a hand-wrist--forearm configuration supporting mold means for adjustably coupling a hand
11 and forearm with said panel.

12 12. The hand-wrist-forearm configuration supporting mold means according to claim 11
13 comprises a contact-sensor means for monitoring the positions, orientations of and contacts
14 between the hand, wrist and forearm and the contact-sensor means.

15 13.The hand-wrist-forearm configuration supporting mold means according to claim 11
16 comprises a temperature sensor means for detecting and monitoring the heat emitted by the
17 hand, wrist and forearm.

18 14. The hand-wrist-forearm configuration supporting mold means according to claim 11
19 comprises a sensor for detecting and measuring a range of pressures and/or forces being
20 exerted by the ipsilateral hand, wrist and forearm on said supporting mold means.

21 15.The hand-wrist-forearm configuration supporting mold means according to claim 11
22 comprises an on-off switch means for turning on and off the function of said panel.

1 16. The hand-wrist-forearm configuration supporting mold means according to claim 11
2 comprises a timing device for permitting a certain period of disengagement of hand, wrist and
3 forearm from said supporting mold means.

4 17. The system of two separate panels of computer keyboard means according to claim 2
5 wherein said means for maintaining a posture of a shoulder and upper arm comprises:

6 a contact-sensor means for monitoring the positions, orientations of and contacts between the
7 hand, wrist and forearm and the contact-sensor means;

8 a temperature sensor means for detecting and monitoring the heat emitted by the hand, wrist
9 and forearm;

10 a sound generating device;

11 a sound detecting device;

12 a sensor for detecting and measuring a range of pressures and/or forces being exerted by the
13 ipsilateral hand, wrist and forearm on said supporting mold means;

14 an on-off switch means for turning on and off the function of said panel;

15 a timing device for permitting a certain period of disengagement of hand, wrist and forearm
16 from said supporting mold means; and

17 a camera means for surveillance a position of the shoulder and upper arm.

18 18. A system of two separate panels of computer keyboard means for reducing the motions
19 and promoting the ergonomic posture of the shoulders and upper arms of a computer-

- 1 keyboard user operating a computer and a laptop computer comprises:
- 2 a first independent panel in a first chassis comprising all computer keyboard keys bearing all
- 3 numerics, alphabets, words, symbols, signs and functions to the left of keys 5, T, G, B
- 4 universally found on computer keyboards including keys 5, T, G, B and their associated
- 5 symbols and functions, a first Space-key, a first Enter-key and a first camera means for
- 6 surveillance, computer mouse, ball, button, wheel, dial and scrolling and pointing devices;
- 7 a second independent computer keyboard panel member comprising all keyboard keys
- 8 bearing all numerics, alphabets, words, symbols, signs and functions to the right of keys 6, Y,
- 9 H, N universally found on computer keyboards including keys 6, Y, H, N and their associated
- 10 symbols, a second Space-key, a second Enter-key and a second camera means for
- 11 surveillance, computer mouse, ball, button, wheel, dial and scrolling and pointing devices.
- 12 a means for positioning a shoulder and upper arm;
- 13 a means for monitoring a position of a shoulder and upper arm;
- 14 a means for compelling a desired position of a shoulder and upper arm;
- 15 a means for maintaining a posture of a shoulder and upper arm;
- 16 a timing means for permitting the amount of time of disengagement of the hand, wrist and
- 17 forearm from said means;
- 18 a camera means for surveillance a position of the shoulder and upper arm;
- 19 a computer software means for computing and analyzing the information and data on the
- 20 movements, positions, orientations and degree of stress on the shoulder and upper arm

- 1 generated by the interaction between the hand, wrist and forearm and said means;
- 2 a housing means for compacting and storing said panels in a computer;
- 3 a housing means for compacting and storing said panels in a laptop computer;
- 4 a housing means for compacting and storing said panels in a portable computer;
- 5 a retracting means for positioning, moving and maneuvering in different directions said
- 6 panels;
- 7 a swivel means for positioning, moving and maneuvering in different directions said panels;
- 8 a hinge means for positioning, moving and maneuvering in different directions said panels;
- 9 a base supporting means for variably affixing a position of said panel; and
- 10 a traction means for adjustably affixing a position of said panel.